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ATCCCCCCC CCCTCCTCC	T 00040T0400				
ATGGCGGCGG CCGTCCTGC	I GGGACTGAGC	IGGCICTGCT	CTCCCCTGGG	AGCTCTGGTC	60
CTGGACTTCA ACAACATCA	G GAGCTCTGCT	GACCTGCTTG	GGGCCCGGAA	GGGCTCACAG	120
TGCCTGTCTG ACACAGACT	G CAATACCAGA	AAGTTCTGCC	TCCAGTCCCA	CAATGAGAAG	180
CCGTTCTGTG CTACATGTC	G TGGGTTGCAG	AGGAGGTGCC	AGCGAGATGC	CATGTGCTGC	240
CCTGGGACAC TCTGCATGA	A TGATGTTTGT	ACTACGATGG	AAGACGCAAC	CCCAAAATTG	300
GAAAGGCAGC TTGATGAGC	A AGATGGCACA	CATGCAGAAG	TAACAACTGG	GCACCCAGTC	360
CAGGAAAACC AACCCAAGA					420
GAGGGAGAAA GTTGTCTGAG					480
TTTTGGACGA AAATTTGTAA					540
CATAAAGACA CTGCTCAAGO					600
CTGTGTCGAA GCCAACTGAC					660
ATAGAAAAGC TATAA					675
					0/3

FIG.1

1 MAAAVLLGLS WLCSPLGALV LDFNNIRSSA DLLGARKGSQ CLSDTDCNTR KFCLQSHNEK 61 PFCATCRGLQ RRCQRDAMCC PGTLCMNDVC TTMEDATPKL ERQLDEQDGT HAEVTTGHPV 121 QENQPKRKPS IKKSQGRKGQ EGESCLRTFD CGPGLCCARH FWTKICKPVL LEGQVCSRRG 181 HKDTAQAPEI FQRCDCGPGL LCRSQLTSNQ QHARLRVCQK IEKL

FIG.2

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		1				50
Human_	_Dkk-4(AF177397) Cyno_Dickkopf-4					
	_	51				100
Human	Dkk-4(AF177397)		AGCCTCGCTT	TGGTGACGCA	CAGTGCTGGG	
-	Cyno_Dickkopf-4					
		101				150
Human	Dkk-4(AF177397)		TTGAAGGATG	GTGGCGGCCG	TCCTGCTGGG	
_	Cyno_Dickkopf-4					
		151				200
Human	Dkk-4(AF177397)	CTCTGCTCTC				ACATCAGGAG
-	_Cyno_Dickkopf-4	CTCTGCTCTC	CCCTGGGAGC	TCTGGTCCTG	GACTTCAACA	ACATCAGGAG
		201				250
Human	Dkk-4(AF177397)		CTGCATGGGG	CCCGGAAGGG	CTCACAGTGC	-,
_	Cyno_Dickkopf-4	CTCTGCTGAC	CTGCTTGGGG	CCCGGAAGGG	CTCACAGTGC	CTGTCTGACA
		251				300
Human	Dkk-4(AF177397)	CGGACTGCAA	TACCAGAAAG	TTCTGCCTCC	AGCCCCGCGA	TGAGAAGCCG
_	Cyno_Dickkopf-4	CAGACTGCAA	TACCAGAAAG	TTCTGCCTCC	AGTCCCACAA	TGAGAAGCCG
		301				350
Human	Dkk-4(AF177397)	TTCTGTGCTA	CATGTCGTGG	GTTGCGGAGG	AGGTGCCAGC	GAGATGCCAT
_	Cyno_Dickkopf-4	TTCTGTGCTA	CATGTCGTGG	GTTGCAGAGG	AGGTGCCAGC	GAGATGCCAT
		351				400
Human_	Dkk-4(AF177397)	GTGCTGCCCT	GGGACACTCT	GTGTGAACGA	TGTTTGTACT	ACGATGGAAG
	Cyno_Dickkopf-4	GTGCTGCCCT	GGGACACTCT	GCATGAATGA	TGTTTGTACT	ACGATGGAAG
		401				450
Human_	Dkk-4(AF177397)					
	Cyno_Dickkopf-4	ACGCAACCCC	AAAATTGGAA	AGGCAGCTTG	ATGAGCAAGA	TGGCACACAT
		451				500
-	Dkk-4(AF177397)					
_	Cyno Dickkopf-4	GCAGAAGTAA	CAACTGGGCA	CCCAGTCCAG	GAAAACCAAC	CCAAGAGGAA

FIG.3A

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		501				550
Human	Dkk-4(AF177397)	GCCAAGTATT	AAGAAATCAC	AAGGCAGGAA	GGGACAAGAG	GGAGAAAGTT
-	Cyno_Dickkopf-4	GCCAAGTATT	AAGAAATCAC	AAGGCAGGAA	GGGACAAGAG	GGAGAAAGTT
	· <u>-</u> ·					
		551				600
Human	Dkk-4(AF177397)	GTCTGAGAAC	TTTTGACTGT	GGCCCTGGAC	TTTGCTGTGC	TCGTCATTTT
_		GTCTGAGAAC	TTTTGACTGT	GGCCCTGGAC	TITIGCTIGTIGC	TCGTCATTTT
	-					
		601				650
Human_	Dkk-4(AF177397)					
	Cyno_Dickkopf-4	TGGACGAAAA	TTTGTAAGCC	AGTCCTTTTG	GAGGGACAGG	TCTGCTCCAG
		651				700
Human_	Dkk-4(AF177397)					
•	Cyno_Dickkopf-4	GAGAGGCAT	AAAGACACTG	CTCAAGCTCC	AGAAATCTTC	CAGCGTTGCG
		704				770
		701	T0010T10T0			750
Human_	Dkk-4(AF177397)					
	Cyno-Dickkopf-4	ACTGTGGCCC	CGGACTACTG	IGICGAAGCC	AACTGACCAG	CAATCAGCAG
		724				000
	DI 444E177007	751	TAAOAOTATO	000000000000000000000000000000000000000	OA A A OOTAT	008
Human_	Dkk-4(AF177397)					
	Cyno_Dickkopf-4	CATGCACGGT	IACGAGIAIG	CCAAAAAAIA	GAAAAGCTAT	AA
		001			0/	14
[l	DUL 4(4E177207)	801	CAATCCACAT	TOCAAAAAA	84	· -
numan_	Dkk-4(AF177397)			IGCAVAVAAA	***********	А
	Cyno Dickkopf-4					•

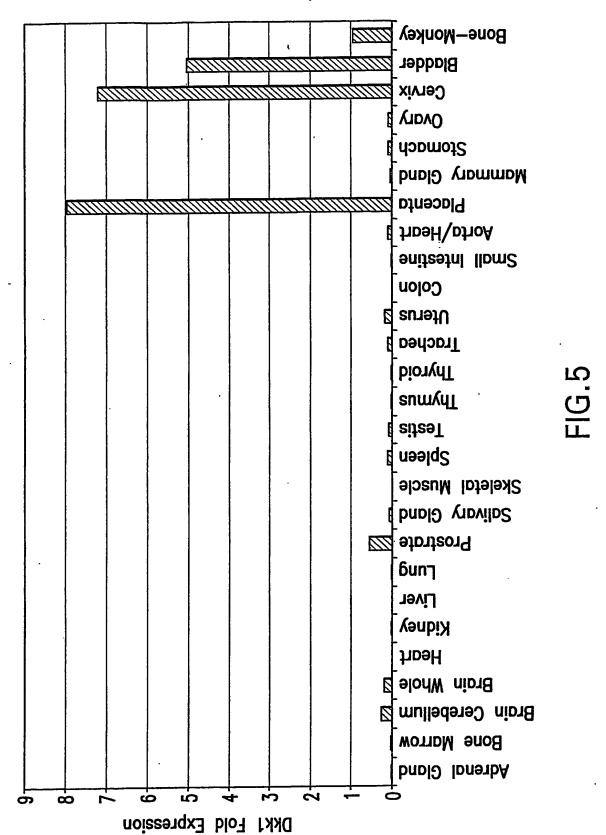
FIG.3B

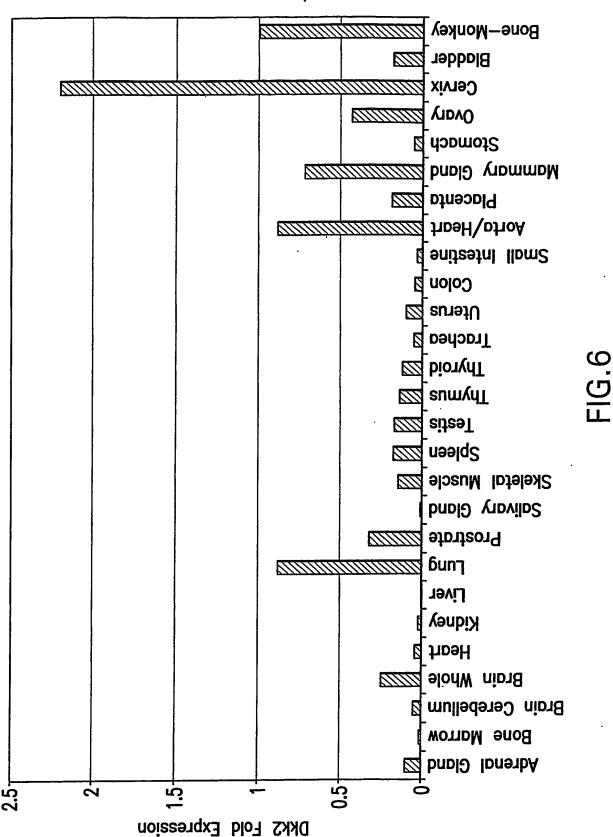
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Cyno	Dickkopf-4	MAAAVLLGLS	WLCSPLGALV	LDFNNIRSSA	DLLGARKGSQ	CLSDTDCNTR
_	Human Dkk4	MVAAVLLGLS	WLCSPLGALV	LDFNNIRSSA	DLHGARKGSQ	CLSDTDCNTR
	Mouse_DKK4	MVLVTLLGLS	WFCSPLAALV	LDFNNIKSSA	DVQGAGKGSL	CASDRDCSEG
			•			100
_		51	DECATODO! O	DDCODDAMCC	DOTI CMNDVC	
Cyno_	Dickkopt-4	KFCLQSHNEK	PECATORGEQ	RRCURDAMCC	PGT CYMDYC	TENEDATER
	Human_Dkk4	KFCLQPRDEK	PFCATCRGLR	RRCQRDAMCC	PGILCVNDVC	TAVEDEDOVA
	Mouse_DKK4	KFCLAFHDER	SFCATCRRVR	RRCQRSAVCC	PGIVCVNDVC	TAVEDTRPVM
		404				150
		101		OFNODIADIADA	TWYCOCDYCO	
Cyno_	_Dickkopf-4	ERQLDEQDGT	HAEVIIGHPV	QENQPKRKPS	IKKSQGRKGQ	EGESCENTED
	Human_Dkk4	ERQLDEQDGT	HAEGITGHPV	QENQPKRKPS	TKKSQGRKGQ	EGESCLRIFD
•	Mouse_DKK4	DRNTDGQDGA	YAEGTTKWPA	EENRPQGKPS	TKKSQSSKGQ	EGESCLRISD
						200
		151		L'EOONOEDDO	LUZDTAGADET	
Cyno	_Dickkopf-4	CGPGLCCARH	FWIK1CKPVL	LEGUVCSRRG	HKDTAQAPET	FUNCTURE
	Human_Dkk4	CGPGLCCARH	FWTKICKPVL	LEGQVCSRRG	HKDTAQAPET	FURCDUGPGL
	Mouse_DKK4	CGPGLCCARH	FWTKICKPVL	REGQVCSRRG	HKDTAQAPE1	FURCDUGPGL
			-	004		
		201		224	•	
Cyno	_Dickkopf-4	LCRSQLTSNQ	QHARLRVCQK	IEKL		
	Human_Dkk4	LCRSQLTSNR	QHARLRVCQK	IEKL		
		TCRSOVTSNR				

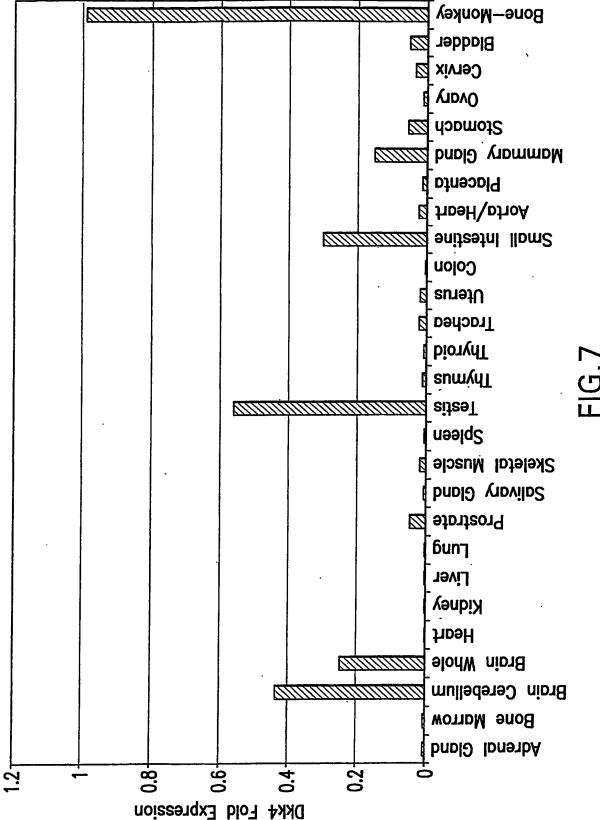
FIG.4

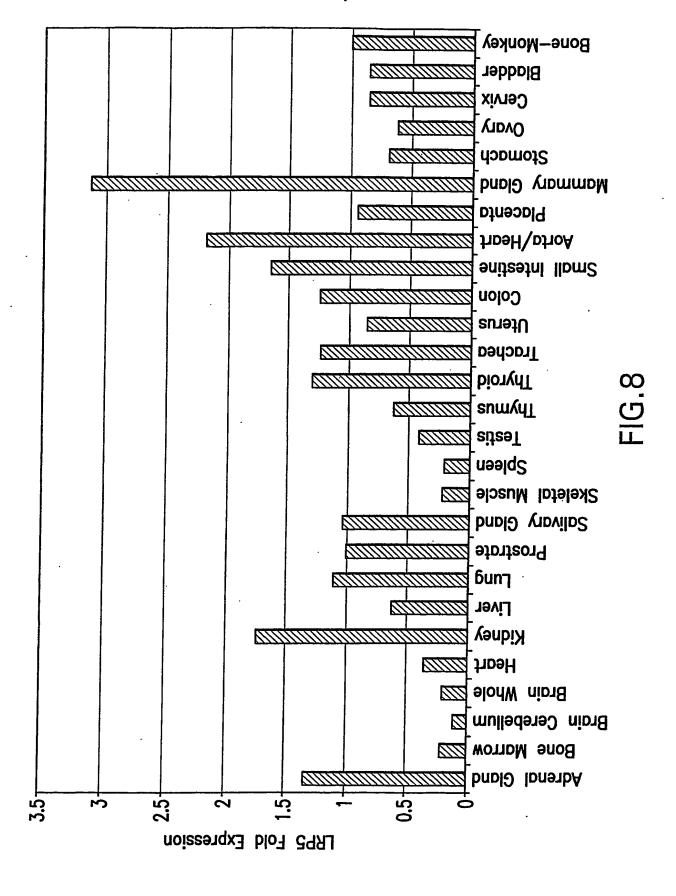


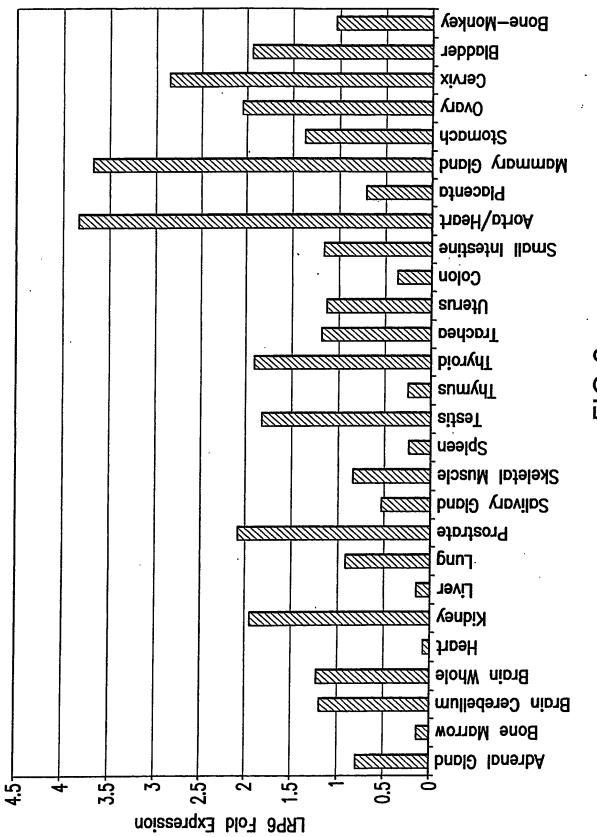












T.C.0